

AMENDMENTS TO THE CLAIMS

Please amend the present application as follows:

Claims

1. (Previously presented) A light generating device comprising:
 - a blue light emitting device that emits blue light with peak wavelength within a range from 460 nanometers (nm) to 480 nm; and,
 - an epoxy placed over the light emitting device, the epoxy including:
 - a first type of phosphor; and
 - a second type of phosphor;
 - wherein the first type of phosphor, when excited, emits red light; and,
 - wherein the second type of phosphor, when excited, emits yellow light.
2. (Canceled)
3. (Currently amended) A light generating device as in claim 1:
 - wherein the light emitting device is a blue light emitting diode; and,
 - wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:
 - Tb₃Al₅O₁₂:Ce,
 - Sr(Ba,Ca)SiO₄:Eu,
 - YAG:Ce.
4. (Original) A light generating device as in claim 1 additionally comprises one of the following:
 - a mold compound covering the epoxy;
 - an optical dome covering the epoxy.
5. (Canceled)
6. (Currently amended) A light generating device as in claim 1:
 - wherein the first type of phosphor is a red phosphor having one of the following chemical formulas:

$\text{CaS:Eu}^{2+}, \text{Mn}^{2+}$,
 ~~SrS:Eu^{2+}~~ ;
 $(\text{Zn}, \text{Cd})\text{S:Ag}^+$,
 $\text{Mg}_4\text{GeO}_{5.5}\text{F:Mn}^{4+}$,
 ZnS:Cu^+ ,
 ZnSe:Cu, Cl ,
 $\text{ZnSe}_{1/2}\text{S}_{1/2}\text{:Cu, Cl}$,
 $\text{BaSi}_7\text{N}_{10}\text{:Eu}^{2+}$,
 $(\text{Ca}, \text{Sr}, \text{Ba})\text{Si}_5\text{N}_8\text{:Eu}^{2+}$; and,

wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:

$\text{Tb}_3\text{Al}_5\text{O}_{12}\text{:Ce}$,
 $\text{Sr}(\text{Ba}, \text{Ca})\text{SiO}_4\text{:Eu}$,
 ~~YAG:Ce~~ .

7. (Original) A light generating device as in claim 1 additionally comprising:
 - a second light emitting device; and,
 - a second epoxy placed over the second light emitting device, the second epoxy including:
 - the first type of phosphor, and
 - the second type of phosphor.
8. (Original) A light generating device as in claim 1 additionally comprising:
 - a second light emitting device;
 - a second epoxy placed over the second light emitting device, the second epoxy including:
 - the first type of phosphor, and
 - the second type of phosphor;
 - a third light emitting device; and,
 - a third epoxy placed over the third light emitting device, the third epoxy including:
 - the first type of phosphor, and
 - the second type of phosphor.

9. (Original) A light generating device as in claim 1, wherein the light emitting device is mounted on one of the following:

- a printed circuit board;
- a lead frame.

10. (Original) A light generating device as in claim 1, wherein the light emitting device is mounted within a printed circuit board substrate.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Previously presented) A light generating device comprising:
emitting means for emitting blue light with peak wavelength within a range from 460 nanometers (nm) to 480 nm; and,
holding means for holding a first type of phosphor and a second type of phosphor adjacent to the emitting means;
wherein the first type of phosphor, when excited, emits red light; and,
wherein the second type of phosphor, when excited, emits yellow light.

15. (Canceled)

16. (Currently amended) A light generating device as in claim 14:
wherein the emitting means is a blue light emitting diode; and
wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:

$\text{Tb}_3\text{Al}_5\text{O}_{12}:\text{Ce}$,
 $\text{Sr}(\text{Ba},\text{Ca})\text{SiO}_4:\text{Eu}$,
 $\text{YAG}:\text{Ce}$.

17. (Canceled)

18. (Currently amended) A light generating device as in claim 16:

wherein the first type of phosphor is a red phosphor having one of the following chemical formulas:

$\text{CaS:Eu}^{2+}, \text{Mn}^{2+},$
 $\text{SrS:Eu}^{2+};$
 $(\text{Zn}, \text{Cd})\text{S:Ag}^{+},$
 $\text{Mg}_4\text{GeO}_{5.5}\text{F:Mn}^{4+},$
 $\text{ZnS:Cu}^{+},$
 $\text{ZnSe:Cu, Cl},$
 $\text{ZnSe}_{1/2}\text{S}_{1/2}\text{:Cu, Cl},$
 $\text{BaSi}_7\text{N}_{10}\text{:Eu}^{2+},$
 $(\text{Ca}, \text{Sr}, \text{Ba})\text{Si}_5\text{N}_8\text{:Eu}^{2+};$ and,

wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:

$\text{Tb}_3\text{Al}_5\text{O}_{12}\text{:Ce},$
 $\text{Sr}(\text{Ba}, \text{Ca})\text{SiO}_4\text{:Eu},$
 $\text{YAG:Ce}.$

19. (Original) A light generating device as in claim 14, wherein the emitting means is mounted on one of the following:

a printed circuit board;
a lead frame.

20. (Original) A light generating device as in claim 14, wherein the emitting means is mounted within a printed circuit board substrate.